

Daily System Generation Summary on Friday

Friday, July 29, 2022

Availability at Daily Maximum Demand Hour

ST-Coal	0 MW
ST-Gas	0 MW
ST-Oil	0 MW
Hydro	2,462 MW
Distillate	0 MW
Total TNB	2,462 MW
Total IPP	19,806 MW
Total Co-Gen	0 MW
Total System	25,909 MW

Generation Mix

Type	MWh	Percentage
Hydro	22,169	6.10 %
Gas	32,025	8.81 %
Total TNB	54,194	14.91 %
ST-Coal	213,018	58.60 %
LSS	5,018	1.38 %
Gas	90,746	24.96 %
Total IPP	308,782	84.94 %
Co-Gen	605	0.17 %
Total Co-Gen	605	0.17 %
Total Generation	363,581	100.02 %
PLTG	2,195	0.60 %
HVDC	-2,124	-0.58 %
Interconnection	71	0.02 %
Net Energy	363,510	100.00 %

Maximum Demand Record

Date: 5/24/2022	19,183 MW
Date: 5/24/2022	398,523 MWH

Set On Bus, TNB, IPP And MD

Daily Maximum Demand Hour at:	16:30:00 Hour
Total Set On Bus	18,205 MW
TNB Generation	2,840 MW
IPP Generation	14,061 MW
Spinning Reserve	1,280 MW
Maximum Demand	16,890 MW
Net Energy	363,510 MWH
Load Factor	89.68 %

Fuel Cost

Total Cost:	126,278,295.52 RM
Cost per Unit	34.73 cents/kWH

Average Spinning Reserve During Peak Hour

Type	MW
GT	1,076
Hydro	193
Syncon	664
Thermal	210
Total	2,143

Time	Weather	Temperature
Afternoon	Hot	32
Morning	Sunny	28

Gas Usage

Station	(mmscfd)
GLGR	29
TJGS	81
Total TNB	111
CBPS	42
EMPP	284
NPRI	125
PCGP	66
PGLA	48
PLPS	36
SGRI	0
SPGP	107
Total IPP	709
Total Gas	819
Total Gas Required	819

Alternate Fuel Usage

Station	(mmscfd)
Total	0

Hourly System MW Generation

	00:00	01:00	02:00	03:00	04:00	05:00	06:00	07:00	08:00	09:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00
System Total	15135	14430	13861	13441	13148	12924	13187	13190	13555	14915	15601	16096	16177	15936	16103	16572	16792	16654	15718	15707	16513	16311	15861	15513

Prepared By: -Select Name-

Checked By: -Select Name-

Printed on: Monday, August 8, 2022 4:22:26 PM

(Ir. Shanmugam Thoppalan)
Head
Grid System Operator

Daily MW Generation on Friday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300										
JMAH	U001	704	707	706	704	705	706	705	706	705	706	705	706	705	706	707	706	705	706	705	708	703	704	706	705	707	705	705	708	704	707	703	704		
JMAH	U002	700	707	707	705	705	705	707	708	705	705	706	706	707	702	705	704	704	699	709	706	705	705	704	703	709	707	709	707	706	705	707	700	707	
JMHE	U001	973	978	902	878	851	849	849	850	850	851	850	848	851	851	852	850	850	856	980	975	979	980	982	977	979	982	983	982	984	982	981	979	981	
JMHE	U002	976	982	902	876	857	849	848	848	850	850	851	848	851	850	850	851	847	851	983	975	980	978	983	979	983	976	978	977	976	972	980	977	982	
JMJG	U001	669	663	671	660	670	671	668	664	664	668	666	662	667	667	672	662	658	670	662	667	672	662	670	671	668	670	665	666	667	666	663	666	663	
JMJG	U002	672	666	678	678	683	673	673	673	673	673	677	682	671	667	677	674	671	665	678	672	668	677	678	671	677	678	672	677	673	673	677	676	673	
JMJG	U003	665	668	668	665	662	664	665	665	667	667	665	660	664	666	667	668	662	667	660	666	672	628	671	667	665	664	666	671	668	671	668	666	667	666
JMJG	U004	974	972	933	899	853	853	853	854	854	853	851	851	854	854	854	857	854	854	911	966	978	975	977	979	978	977	977	977	976	978	977	974	976	
PKLG	U003	148	151	146	148	147	149	148	149	148	148	148	149	149	148	150	148	150	242	270	275	275	274	275	276	276	276	275	224	147	150	150	149	149	
PKLG	U004	159	151	153	157	154	155	156	152	146	148	147	147	149	148	150	148	148	260	277	280	275	273	273	272	273	276	274	234	155	154	154	155	154	
PKLG	U005	315	266	269	269	268	270	268	269	268	269	268	269	268	269	269	268	269	329	431	471	466	470	470	459	449	468	469	425	338	266	267	269	269	
TBIN	U001	694	698	698	697	697	699	699	696	698	696	701	696	697	701	698	698	697	696	696	699	692	697	699	691	692	699	701	697	697	699	699	696	697	
TBIN	U002	703	701	700	700	698	561	309	211	217	211	213	214	213	213	213	213	261	497	665	702	702	706	700	700	702	696	703	702	703	704	700	707		
TBIN	U003	698	699	699	702	698	698	700	695	699	703	700	697	697	697	700	698	700	701	697	700	702	702	703	699	697	700	699	700	705	697	701	701		
Total ST-Coal		9050	9009	8832	8738	8648	8502	8248	8140	8145	8151	8158	8125	8140	8149	8158	8141	8171	8706	9318	9456	9480	9434	9481	9456	9447	9474	9486	9345	9108	9036	9023	9034		
Total ST-Oil		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Total ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
CBPS	BLK2	215	222	221	222	223	223	223	223	223	222	221	223	221	222	222	222	222	222	222	222	222	222	222	222	224	224	224	224	224	315	357	358		
EMPP	BLK1	640	557	594	559	581	561	572	572	500	507	443	491	520	551	509	497	629	645	583	634	615	698	657	685	650	627	634	657	693	701	689	700		
EMPP	BLK2	659	557	588	558	582	561	571	571	501	506	445	493	520	557	524	507	628	666	583	634	615	696	655	684	648	627	634	663	710	710	704	707		
EMPP	BLK3	640	562	617	577	598	581	594	600	523	526	456	511	540	575	534	511	651	667	607	666	634	708	686	706	680	656	666	680	694	707	690	699		
GLGR	GT02	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	94	95	94	94	94	94	94	94	94	94		
GLGR	ST1C	41	41	41	41	40	40	40	40	40	40	41	41	41	41	41	41	41	41	41	41	41	41	41	40	40	41	41	41	40	40	41	41		
NPRI	BLK1	298	310	307	311	311	310	310	310	308	310	311	308	310	307	310	308	311	306	310	308	307	310	308	311	308	310	311	308	509	514	508	509		
NPRI	BLK2	323	335	333	335	335	334	335	335	332	335	335	333	335	332	335	328	329	326	329	325	327	331	328	335	333	337	336	332	413	518	380	513		
PCGP	PGRG	400	405	404	403	402	402	405	405	403	405	405	403	405	405	403	408	409	406	401	401	397	402	397	400	493	501	401	498	594	597	587	593		
PGLA	GT11	166	181	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
PGLA	GT12	169	174	152	157	157	157	157	158	158	159	157	159	158	155	163	158	157	159	157	159	158	159	157	159	157	159	160	157	157	157	155	156		
PGLA	ST10	204	99	95	91	90	90	91	90	90	90	90	90	90	90	90	89	91	89	90	90	90	90	90	90	90	90	90	90	90	90	90	90		
PLPS	GT11	129	129	130	129	129	129	129	129	129	129	129	129	128	128	129	129	129	128	128	129	128	129	128	128	129	129	129	129	129	129	129	129		
PLPS	ST18	56	56	56	56	57	56	56	56	57	57	56	56	57	57	56	56	56	56	56	56	57	56	57	56	56	56	56	56	57	57	57	57		
SGRI	GT13	40	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SGRI	ST14	39	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
SPGP	BLK2	451	450	453	450	450	451	451	451	452	451	452	453	450	451	450	449	449	450	447	447	711	713	708	701	707	596	597	598	596	596	720	700	702	
TJGS	GT2A	132	132	131	131	131	131	131	131	131	131	131	131	131	131	130	131	131	131	132	131	131	132	131	131	131	131	131	132	130	130	130	171		
TJGS																																			

Daily MW Generation on Friday

Station	Unit	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1900	2000	2100	2200	2300						
HTRG	HY01	63	62	62	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	62	124	124	124	63	-1	-1	-1	-1	
HTRG	HY02	63	63	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
HTRG	HY03	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
KNRG	HY01	32	32	32	32	23	23	23	23	23	23	23	23	23	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	32	
KNRG	HY02	38	37	38	38	23	22	21	21	22	22	22	21	21	21	22	38	38	37	38	38	38	38	37	37	37	38	38	37	37	
KNRG	HY03	36	36	36	36	23	23	23	23	23	23	22	23	22	23	36	36	36	36	36	36	36	36	36	36	36	36	36	36	36	
KNYR	HY01	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	100	
KNYR	HY02	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	105	
KNYR	HY03	105	105	105	105	105	105	104	104	104	104	105	105	105	105	105	105	105	104	104	104	104	104	104	104	104	104	104	104	105	
KNYR	HY04	100	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	101	100	
LPIA	HY01	10	13	16	16	10	14	14	14	16	16	16	17	17	18	18	19	19	19	19	19	19	19	19	19	19	19	19	19	19	
LPIA	HY02	10	12	14	16	14	14	14	14	15	15	15	16	17	17	17	18	19	19	19	19	19	19	19	19	19	19	19	19	19	
MNOR	HY01	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	
PGAU	HY01	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	20	-1	-1	-1	-1	-1	-1	-1	
PGAU	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1		
SIHY	HY02	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	30	30	30	30	0	
SIHY	HY03	30	30	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	30	50	50	50	50	30	30	30	30	0	
SYPS	HY03	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	0	
SYPS	HY04	17	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	17	17	17	25	25	25	25	25	0	
TMGR	HY01	41	43	43	50	43	42	42	43	44	-1	-1	-1	-1	-1	42	42	42	42	82	82	82	82	82	82	84	84	33	34	34	
TMGR	HY02	85	87	87	87	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	44	44	44	87	86	86	86	87	87	86	87	87	88	87	34	
TMGR	HY03	81	83	83	83	0	0	0	0	0	0	0	0	0	0	0	82	82	82	82	82	81	82	82	82	84	84	32	32	32	
TMGR	HY04	49	83	68	83	83	41	41	42	43	42	41	43	42	41	41	42	45	43	48	43	41	56	69	83	83	83	47	83	59	
UJLI	HY01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	94	92	179	-1	-1	-1	-1	-1	-1	
UJLI	HY02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	88	90	91	96	94	-1	-1	-1	-1	-1	
UPIA	HY01	4	4	2	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	4	3	
UPIA	HY02	3	3	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	
Total Hydro		1102	1146	1063	941	715	698	696	698	724	658	658	680	658	659	628	629	632	757	765	760	779	877	979	993	994	1014	996	996	958	1056
Total Distillate		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
BDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	7	2	2	20	10	11	14	18	23	15	26	21	16	16	
BKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	11	15	19	22	27	26	28	33	35	21	35	32	32	24	
BSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	8	10	15	18	21	26	28	32	32	32	27	20	22	17	30	
CHLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	7	12	31	14	31	24	34	18	2	9	6	17	32	14	
GELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	14	20	15	26	15	29	19	14	30	24	23	22	15	
GNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	3	7	12	18	23	26	33	36	36	43	42	29	20	16	39	26	
JELS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	9	13	17	21	24	28	15	15	17	11	24	21	19	
JSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	5	5	15	33	19	38	27	28	23	3	12	11	10	9	20	
KDLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	8	28	32	40	53	62	73	80	87	89	85	70	41	55	72	71	
KKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	14	21	17	25	35	37	39	43	15	36	29	16	48	17	
KMLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	12	15	18	23	26	24	30	21	17	18	22	19	19	8	
KNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	10	10	10	10	10	99	88	47	
MCLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	10	17	23	29	34	39	43	41	28	44	48	43	34	29	
MNLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	18	33	45	57	63	70	74	78	81	88	76	88	71	76	66	
PKLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	11	26	42	62	72	88	61	61	92	80	57	85	114	81	79	97	
SPLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	4	12	20	34	43	46	47	7	41	52	52	52	38	51	34	
SSLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	4	5	8	6	25	34	34	26	25	27	24	25	7	31	17	8	
STLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	1	3	6	10	14	17	22	21	24	27	19	22	13	12	11	9	

Daily MW Generation on Friday

Station	Unit	0000		0100		0200		0300		0400		0500		0600		0700		0800		0900		1000		1100		1200		1300		1400		1500		1600		1700		1800		1900		2000		2100		2200		2300		
TBLS	LSS1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	7	14	21	27	30	30	20	22	22	21	30	22	11	9	30	9	30	26	0	2	3	1	0	0	0	0	0	0	0	0	0	0	
Total LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	75	181	260	374	515	564	636	650	673	676	614	619	577	523	717	619	519	448	309	216	165	78	27	3	0	0	0	0	0	0	0	0	0
PCUF	CUFG	22	22	22	22	23	21	22	22	22	22	22	21	22	22	22	22	22	22	22	22	20	20	19	20	19	19	19	19	19	20	19	19	20	19	19	20	23	23	24	22	22	21	22	23	22	22	22		
PCUF	CUFK	4	3	5	5	4	4	4	4	6	5	4	2	4	4	4	4	5	5	6	2	5	2	4	6	5	3	3	5	5	5	4	3	4	4	4	2	4	4	4	6	4	3	3	4	4	4	5	4	
Total Co-Gen		26	25	27	27	27	25	26	26	28	27	26	24	25	26	26	26	27	27	28	24	25	22	23	26	24	22	22	24	24	24	24	22	23	24	23	21	24	27	27	30	26	25	24	26	27	26	27	26	
Total Gen		15195	14811	14458	14140	13890	13665	13449	13348	13158	13118	12931	13062	13145	13250	13116	13058	13553	14377	14871	15269	15648	15997	16098	16188	16199	16085	15942	15959	16116	16222	16551	16769	16835	16925	16714	16280	15765	15486	15663	16182	16478	16456	16341	16067	15787	15637	15485	15231	
TIE-EGAT		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
TIE-HVDC		-97	-97	-97	-48	-48	-49	-47	-49	-50	-48	-50	-49	-98	-98	-98	-98	-98	-98	-98	-98	-98	-97	-100	-97	-100	-98	-98	-98	-98	-97	-98	-96	-96	-96	-96	-98	-97	-99	-97	-97	-97	-98	-98	-98	-97	-97	-98	-98	-98
TIE-PLTG		157	151	124	40	77	68	55	79	60	56	57	131	56	96	24	47	96	91	54	142	145	167	102	56	122	148	104	104	111	52	77	118	140	131	159	218	146	81	53	5	64	62	128	26	23	39	69	76	
Interconnection		60	54	28	-8	29	19	8	30	10	8	7	83	-42	-2	-74	-51	-2	-7	-44	44	47	70	2	-40	22	50	6	6	13	-45	-21	22	43	35	60	120	47	-15	-44	-92	-35	-36	30	-71	-74	-59	-28	-21	
System Total		15135	14757	14430	14148	13861	13646	13441	13318	13148	13110	12924	12979	13187	13252	13190	13109	13555	14384	14915	15225	15601	15927	16096	16228	16177	16035	15936	15953	16103	16267	16572	16747	16792	16890	16654	16160	15718	15501	15707	16274	16513	16492	16311	16138	15861	15696	15513	15252	
SRev ST-Coal		257	242	421	466	457	528	526	537	534	524	516	550	539	526	522	542	554	522	301	163	139	185	138	163	172	145	133	218	217	219	232	224	230	214	255	245	232	222	237	228	240	230	227	224	224	224	243	390	
SRev CCGT-Gas		2005	2251	1910	2012	1946	2006	1967	1962	2185	2164	2357	2213	2124	2030	2142	2193	1798	1740	1946	1791	1597	1346	1467	1383	1385	1427	1502	1351	877	743	838	547	371	389	393	775	880	1401	1144	908	1033	1004	955	1101	1284	1391	1509	1596	
SRev LSS		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
SRev ST-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev OCGT-Gas		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
SRev Co-Gen		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Syncon		676	676	525	802	890	890	890	890	739	978	978	827	978	978	978	978	802	802	802	651	651	802	802	802	802	651	802	802	802	802	464	615	615	428	428	615	802	651	802	489	489	525	676	676	802	802	802	651	
Hydro		332	288	372	92	136	177	179	177	302	129	129	258	129	128	159	158	155	206	198	203	335	237	71	57	56	187	54	54	92	94	309	192	196	249	248	126	322	413	276	294	209	236	249	232	205	242	263	421	
S.Reserve Total		3270	3457	3228	3372	3436	3608	3569	3573	3767	3802	3987	3855	3777	3669	3808	3878	3485	3270	3247	2959	2722	2419	2478	2405	2415	2410	2491	2425	1988	1858	1843	1578	1412	1280	1324	1761	2236	2687	2459	1919	1971	1995	2107	2233	2515	2659	2817	3058	